Enterasys X-Pedition Security Routers

Management Module Guide

Document 5138

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Preface

Welcome to the user guide for SPECTRUM's Enterasys X-Pedition Security Routers (SM-ENT1006) management module.

Please take a moment to read through this short preface, which explains how the information in this guide is organized and presented and lets you know how to access information about other SPECTRUM products.

In this section:

Intended Audience

How to Use This Guide [page 4]

Text Conventions [page 5]

Document Feedback [page 5]

Online Documents [page 5]

Required Reading [page 6]

Intended Audience

This guide is intended for users of SPECTRUM's Enterasys X-Pedition Security Routers (SM-ENT1006) management module.

How to Use This Guide

Use this document as a guide for managing the Enterasys devices described on [page 7] with SPECTRUM management module SM-ENT1006.

For general information about device management using SPECTRUM and explanations of SPECTRUM functionality and navigation techniques, refer to the topics listed under Required Reading [page 6].

Text Conventions

The following text conventions are used in this document:

Element	Convention Used	Example
User-supplied parameter names	*Courier and Italic* in angle brackets <>.	The user needs to type the password in place of <*password*>.
On-screen text	Courier	The following line displays: path="/audit"
User-typed text	Courier	Type the following path name: C:\ABC\lib\db
Cross-references	Underlined and hypertext-blue	See Document Feedback [page 5].
References to SPECTRUM documents (title and number)	*Italic*	*SPECTRUM Installation Guide (0675)*
Functionality enabled by SPECTRUM Alarm Notification Manager (SANM)	SANM in brackets [].	[SANM] AGE_FIELD_ID

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Online Documents

SPECTRUM documents are available online at:

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Check this site for the latest updates and additions.

Required Reading

To use this documentation effectively, you must be familiar with the information covered by the SPECTRUM documents listed below.

- *Getting Started with SPECTRUM for Operators (1763)*
- *Getting Started with SPECTRUM for Administrators (0985)*
- *How to Manage Your Network with SPECTRUM (1909)*
- *SPECTRUM Views (2517)*
- *SPECTRUM Menus (2519)*
- *SPECTRUM Icons (2518)*
- *Application View and MIBs (2560)*
- *SPECTRUM Software Release Notice*

Overview

This section introduces the SPECTRUM documentation for the Enterasys X-Pedition Security Routers management module.

In this section:

Device Support

SNMPv3 Support [page 8]

Frame Relay Support [page 8]

Non-Persistent Connections [page 9]

VPN Support [page 9]

Application Support [page 9]

Device MIB Support [page 10]

Device Support

SPECTRUM management module SM-ENT1006 currently provides modeling for the Enterasys X-Pedition Security Routers listed in Table 1. Figure 1 shows the Device Icon in the Topology view.

Table 1: Supported Devices, Firmware, and Model Type

Device	Firmware Revision	Model Type
XSR-1805	XSR-1800 Series, Release 4.0	XPedSecRtr
XSR-1850	XSR-1800 Series, Release 4.0	XPedSecRtr

Figure 1: Device Icon

The XSR-1805 and XSR-1850 are the part of the Enterasys X-Pedition Security Routers family designed especially for site-to-site and remote access connectivity. These devices support dual Fast Ethernet LAN interfaces, VPN hardware acceleration, stateful inspection firewall, and a broad range of WAN interfaces.

The XSR-1805 offers 37k PPS, 50 concurrent VPN tunnels, and a 190Mbps stateful inspection firewall. The rack-mountable XSR-1850 offers superior router throughput, 200 concurrent IPSec/3DES VPN tunnels, stateful inspection firewall, and optional power supply and fan redundancy.

SNMPv3 Support

Enterasys X-Pedition Security Routers support SNMPv3; however, they are not configured to communicate using SNMPv3 by default. To configure the devices for SNMPv3, consult your device's documentation.

In order to monitor SNMPv3 traffic, you must have purchased and installed SPECTRUM's SNMPv3 support, which is available for SPECTRUM versions 6.6.0 and above. For more information about SPECTRUM's SNMPv3 support, see the *SPECTRUM SNMPv3 User Guide (5124)*.

Frame Relay Support

If your SPECTRUM installation includes SPECTRUM's Frame Relay Manager, you will be able to monitor Frame Relay connectivity on your Enterasys X-Pedition Security Routers.

SPECTRUM's Frame Relay Manager will create Data Link Connection Identifier (DLCI) DLCI_Port models that will allow you to manage the DLCI ports on the router.

Enterasys X-Pedition Security Routers support the standard RFC 2115 Frame Relay DTE MIB. Without Frame Relay Manager installed, SPECTRUM will create the rfc2115App to support this MIB. However, with Frame Relay Manager installed, you will have access to additional views to assist you in managing DLCI connections and frDLCIStatusChange traps.

Note: The RFC2115 MIB support includes the frCircuitTable except for these objects: frCircuitCommittedBurst, frCircuitExcessBurst, and frCircuitThroughput.

For more information on the additional functionality available with SPECTRUM's Frame Relay Manager, see the *Frame Relay Manager User's Guide (2102)*.

Non-Persistent Connections

This management module provides support for Non-Persistent Connections. The Enterasys X-Pedition Security Routers support "Dialer Profiles" which allow a pool of resources, in this case physical interfaces, to be bound to a virtual interface. This is useful when there are fewer physical resources than the number of users. For more information, see the *Non-Persistent Connections Manager User Guide (2246)*.

VPN Support

The VPN views provided with this management module allow you to monitor the status of VPNs connected through Enterasys X-Pedition Security Routers (see VPN Status Views [page 13]). However, in order for these views to be available, your router must include the optional VPN Feature Set available from Enterasys for the XSR Security Router.

Application Support

The Enterasys X-Pedition Security Router management module supports various RFC and IEEE standard applications. The applications are created and associated with the device model based on the specific device's capabilities. The following guides contain complete documentation for each of the standard applications supported by SPECTRUM:

- *Bridging Applications (2562)*
- *MIB II Applications (2561)*
- *Routing Applications (3080)*
- *Technology Applications (5065)*
- *Transmission Applications (5064)*

Device MIB Support

This section describes standard and device-specific MIB support for the Enterasys X-Pedition Security Router (SM-ENT1006) management module in SPECTRUM.

Note: See the vendor's device firmware guide for more details about device MIB support: http://www.enterasys.com/download.

Table 2: Standards-Based MIBs

Standards-Based MIBs
RFC 1155 (SMI)
RFC 1212 (Concise MIB Definitions)
RFC 1213 (MIB-II) The EgpNeighTable and AtTable are not supported.
RFC 1471 (PPP LCP MIB)
RFC 1472 (PPP Security MIB)
RFC 1473 (PPP IP NCP MIB)
RFC 1573 (Evolution of Interfaces Group of MIB-II) Supports ifStackTable only.
RFC 1724 (RIPv2 MIB) The rip2GlobalRouteTable and rip2IfTable are supported. The rip2PeerTable is not supported.
RFC 1850 (OSPF MIB)
RFC 2115 (Frame Relay DTE MIB) The frCircuitTable is supported except for these objects: frCircuitCommittedBurst, frCircuitExcessBurst, and frCircuitThroughput.
RFC 2667
RFC 2737 (Entity MIB)
RFC 3411 (SNMPv3 MIB: Framework)
RFC 3412 (SNMPv3 MIB: MPD)
RFC 3414 (SNMPv3 MIB: USM)
RFC 3415 (SNMPv3 MIB: VACM)

Table 3: Vendor MIBs

Vendor MIBs
Ctron-Download-MIB
Ctron-Chassis-MIB
Ctron-Timed-Reset-MIB
Enterasys Configuration Change MIB
Enterasys Configuration Management MIB
Enterasys Syslog Client MIB
Enterasys SNMP Persistence MIB

Traps, Events, and Alarms

This section describes any device-specific events and alarms supported by the Enterasys X-Pedition Security Routers (SM-ENT1006) management module.

Trap Support

The following standard and device-specific traps are supported.

Trap Name	OID
coldStart	0.0
warmStart	1.0
linkDown	2.0
linkUp	3.0
authenticationFailure	4.0
EntityTrapConfigChange [page 12]	1.3.6.1.2.1.47.2.0.1
frDLCIStatusChange [page 12]	1.3.6.1.2.1.10.32.6.1

EntityTrapConfigChange

This trap is described in the RFC 2737 Application section of the *Technology Applications (5065)* document.

frDLCIStatusChange

Use of this trap to update the network model when a virtual circuit changes state is described in the *Frame Relay Manager User's Guide (2102)*.

Device Views

This section describes device-specific MIB views for the Enterasys X-Pedition Security Routers that are accessible from the Icon Subviews menu of the **XPedSecRtr** Device icon.

Note: See the vendor's device firmware guide for more details about device MIB support: http://www.enterasys.com/download.

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VPN Status Views [page 13]

Web Administration [page 14]

NetSight Element Manager [page 14]

Entity Tables

Note: From the Icon Subviews menu for the **XPedSecRtr** Device icon, select **Entity Tables > Physical/ Logical Tables**.

This menu selection provides access to the RFC2737App's Physical and Logical Entity tables (see Application Support [page 9]).

VPN Status Views

In order for these views to be available, your router must include the optional the VPN Feature Set available from Enterasys for the XSR Security Router.

Tunnel Interface Table

Note: From the Icon Subviews menu for the **XPedSecRtr** Device icon, select **VPN Status > Tunnel Interfaces**.

This menu selection provides access to the RFC2667App's Tunnel Interface Table (see Application Support [page 9]).

Tunnel Configuration Table

Note: From the Icon Subviews menu for the **XPedSecRtr** Device icon, select **VPN Status > Tunnel Configuration**.

This menu selection provides access to the RFC2667App's Tunnel Configuration Table (see Application Support [page 9]).

Web Administration

Note: From the Icon Subviews menu for the **XPedSecRtr** Device icon, select **Web Administration**.

This menu selection provides access to the XSR Web Administration view.

Note: By default, the Web Admin URL is `http://<0x1027f>` (the `Network_Address` attribute). You can use the Global Attribute Editor in Search Manager to change this. See the Global Attribute Editor section of the *Search Manager User Guide (2383)* for more information.

NetSight Element Manager

Note: From the Icon Subviews menu for the device icon, select **NetSight Element Manager**.

This menu selection launches the Enterasys NetSight Element Manager application if it is available. In order for SPECTRUM to find Netsight, you must set the `NETSIGHTPATH` environmental variable equal to the path to the NetSight Element Manager application.

When setting the `NETSIGHTPATH` environmental variable, be sure to use the path to the location of the Element Manager executable, not the path to the location of the installation.

For example, if the NetSight Element Manager was installed in a Windows environment in the `Program Files\Enterasys Networks\NetSight Element Manager` directory, the path to the executable would be:

```
C:\Program Files\Enterasys Networks\NetSight Element Manager\Bin
```

Note: For information on how to set an environmental variable, refer to the documentation for your operating system.

Once you have set the `NETSIGHTPATH` environmental variable, you must restart the SpectroGRAPH and the SPECTRUM Control Panel (if you are using it to launch the SpectroGRAPH) in order for the NetSight Element Manager menu option to become available.

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